What is claimed is:

1. A DC-DC converter circuit comprising:

a transformer having a primary winding and a secondary winding, wherein a primary side including the primary winding and a secondary side including the secondary winding are insulated from each other in the DC-DC converter circuit;

a switching circuit including a main switching element which is connected to the primary winding in series and has a control terminal for controlling the main switching element, wherein the main switching element is PWM-controlled so as to stabilize an output voltage of the secondary side;

a driving circuit for generating PWM driving pulses; and

a correction circuit for outputting a voltage whose level is in inverse proportion to an input voltage of the DC-DC converter circuit,

wherein an output of the driving circuit is connected to the control terminal of the main switching element and to the correction circuit.

2. A DC-DC converter circuit as claimed in claim 1, wherein the correction circuit includes a resistor and a capacitor which are connected in series, and the resistor is connected to the driving circuit.

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3. A DC-DC converter circuit as claimed in claim 1, further comprising: a state measurement circuit, provided in the primary side, for detecting a state of the secondary side at the primary side, wherein the state measurement circuit is connected to the correction circuit. 4. A DC-DC converter circuit as claimed in claim 2, further comprising:

a state measurement circuit, provided in the primary side, for detecting a state
of the secondary side at the primary side, wherein the state measurement circuit is
connected to the correction circuit.

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- 5. A DC-DC converter circuit as claimed in claim 3, wherein:
 the transformer has an auxiliary winding provided at the primary side; and
 the state measurement circuit is an output voltage measuring circuit for
 indirectly measuring a smoothed voltage of the auxiliary winding as a voltage level of
 the output voltage of the secondary side, wherein the smoothed voltage of the auxiliary
 winding is in proportion to the output voltage of the secondary side.
- 6. A DC-DC converter circuit as claimed in claim 4, wherein: the transformer has an auxiliary winding provided at the primary side; and the state measurement circuit is an output voltage measuring circuit for indirectly measuring a smoothed voltage of the auxiliary winding as a voltage level of the output voltage of the secondary side, wherein the smoothed voltage of the auxiliary winding is in proportion to the output voltage of the secondary side.
- 7. A DC-DC converter circuit as claimed in claim 3, wherein the state measurement circuit is a current measuring circuit for indirectly measuring an output current of the secondary side by measuring an input current of the primary side.
- 8. A DC-DC converter circuit as claimed in claim 4, wherein the state
 25 measurement circuit is a current measuring circuit for indirectly measuring an output

current of the secondary side by measuring an input current of the primary side.